

Message Text

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 TRSE-00 EUR-12

ERDA-05 ISO-00 MC-02 ACDA-05 EA-06 SSO-00 /038 W

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O 191059Z MAR 75

FM USMISSION OECD PARIS

TO SECSTATE WASH DC IMMEDIATE 6079

C O N F I D E N T I A L SECTION 01 OF 02 OECD PARIS 06956

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW - IL 1544 - DIODES

REFS: A. COCOM DOC REV (74) 1544/1 AND 2

B. STATE 59557

SUMMARY: DISCUSSION ON MARCH 18 OF PENDING REVISED UK PROPOSALS TO REDEFINE THE EMBARGO ON DIODES BROUGHT ON BITTER CRITICISM OF THE US BY THE UK AND FRANCE, WHICH WAS UNCHARACTERISTICALLY ENDORSED BY THE NETHERLANDS AND JAPAN, FOR ITS CONTINUED INABILITY TO ACCEPT ANY CHANGE IN THE CUTOFF FOR (A) MIXER AND DETECTOR DIODES. DISCUSSION OF THE REMAINDER OF THE UK PROPOSAL LED TO THE CONCLUSION THAT TECHNICAL INCONSISTENCY EXISTS IN THE PRESENT DEFINITION WHICH THE UK COUNTERPROPOSAL WOULD NOT HAVE CORRECTED. A TECHNICAL WORKING GROUP PRODUCED A COMPLETE REDEFINITION TO WHICH THE MAJORITY OF DELEGATIONS INDICATED AGREEMENT AD REF AND ON WHICH THE US RESERVED SYMPATHETICALLY. DELEGATIONS ARE EXPECTED TO SEEK FRESH INSTRUCTIONS FOR RENEWED DISCUSSION ON FRIDAY, MARCH 21. ACTION REQUESTED: THAT EVERY EFFORT BE MADE TO PROVIDE IMMEDIATE INSTRUCTIONS IN ACCORD WITH THE RECOMMENDATIONS BELOW BY COB MARCH 20 WASHINGTON. END SUMMARY.

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1. THE HEADING OF THE UK PROPOSAL WAS ACCEPTED WHEN CA-

NADA LIFTED ITS AD REF, JAPAN CONCURRED WITH THE UK AND WITHDREW ITS OWN PROPOSAL, AND THE US ACCEPTED ON CONDITION THAT THYRISTORS ARE REDEFINED SEPARATELY BY THE COMMITTEE.

2. JAPAN OFFERED VERIFIED EVIDENCE OF CHINESE CAPABILITY TO PRODUCE DIODES COVERED UNDER (A) WITH AN OUTPUT OF 38 GHZ AS SUPPORT FOR RAISING THE CUTOFF FROM 1 GHZ TO 12.5 GHZ. ALL EXCEPT THE US, WHICH WISHED THAT THE SUB-ITEM REMAIN UNCHANGED, AGREED TO THE UK FIGURE OF 12.5 GHZ. THE UK AND FRANCE JOINED IN BITTER CRITICISM OF THE US FOR REFUSING TO DISCUSS A FIGURE WHICH HAD BEEN PRESENTED IN THE SUMMER OF 1974 AND FOR WASTING THE TIME OF EXPERTS WHO HAD TRAVELLED FAR TO NEGOTIATE A PROPER CUTOFF. THE NETHERLANDS AND JAPAN UNCHARACTERISTICALLY ENDORSED THE ANGLO-FRENCH ATTACK.

3. DISCUSSION OF SUBITEMS (B) AND (C) CONTINUED IN THE SAME MANNER WITH EACH BEING ACCEPTED BY ALL OTHER DELEGATIONS JOINED CONDITIONALLY BY THE US (AD REF).

4. DURING DISCUSSION OF (D) AND (E) TECHNICAL DISCREPANCIES WERE DISCOVERED BOTH IN THE PRESENT DEFINITION AND THE UK PROPOSAL WHICH REQUIRED THE ATTENTION OF A TECHNICAL WORKING GROUP. IT RECOMMENDED THE FOLLOWING REDEFINITION:

ITEM 1544 - SEMI-CONDUCTOR DIODES

SEMI-CONDUCTOR DIODES DESIGNED OR RATED FOR USE AT INPUT OR OUTPUT FREQUENCIES ABOVE 12.5 GHZ, HAVING A BULK MATERIAL OTHER THAN SELENIUM OR COPPER OXIDE, OR HAVING ANY OF THE FOLLOWING CHARACTERISTICS;

(A) POINT CONTACT DIODES DESIGNED OR RATED FOR USE AT INPUT OR OUTPUT FREQUENCY ABOVE 12.5 GHZ;

(B) MIXER OR DETECTOR DIODES DESIGNED OR RATED FOR USE AT INPUT OR OUTPUT FREQUENCIES ABOVE 10.5 GHZ;

(C) VOLTAGE VARIABLE TUNING DIODES DESIGNED OR RATED FOR USE AT INPUT OR OUTPUT FREQUENCIES ABOVE 1 GHZ;

(D) AMPLIFIER TUNNEL DIODES DESIGNED OR RATED FOR

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USE AT INPUT OR OUTPUT FREQUENCIES ABOVE 1 GHZ;

(E) PIN DIODES DESIGNED OR RATED FOR USE AT INPUT OR OUTPUT FREQUENCIES ABOVE 1 GHZ;

(F) FAST RECOVERY POWER DIODES (RECTIFIERS) HAVING BOTH A RATED FORWARD RECTIFIED CURRENT OF OVER 5 AMPERES AND A RATED MAXIMUM RECOVERY TIME OF LESS THAN 15 NANoseconds;

(G) LOW POWER SWITCHING AND SMALL SIGNAL (FAST RE-

COVERY) DIODES, INCLUDING SWITCHING TUNNEL DIODES

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ACTION EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NSAE-00 TRSE-00 EUR-12

ERDA-05 ISO-00 MC-02 SSO-00 EA-06 ACDA-05 /038 W

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C O N F I D E N T I A L SECTION 02 OF 02 OECD PARIS 06956

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HAVING A RATED MAXIMUM REVERSE RECOVERY TIME OF LESS THAN 1 NANOSECOND;

(H) VARACTOR AND MULTIPLIER DIODES DESIGNED OR RATED FOR USE AT OUTPUT FREQUENCIES BELOW 1 GHZ, HAVING A PRODUCT OF THE OUTPUT FREQUENCY IN GHZ AND THE INPUT POWER IN WATTS NOT EXCEEDING 25 AND DESIGNED OR RATED FOR USE AT OUTPUT FREQUENCIES AT 1 GHZ AND ABOVE, HAVING A PRODUCT OF THE OUTPUT FREQUENCY IN GHZ AND THE INPUT POWER IN WATTS NOT EXCEEDING 5;

(I) OSCILLATOR AND BULK EFFECT DEVICES (USED FOR THE DIRECT CONVERSION OF DC TO RF POWER) DESIGNED OR RATED FOR USE AT OUTPUT FREQUENCIES GREATER THAN 1 GHZ AND FOR AN OUTPUT POWER EXCEEDING 20 MILLIWATTS.

NOTE: "GOVERNMENTS MAY PERMIT, AS ADMINISTRATIVE EXCEPTIONS, THE SHIPMENT OF DIODES EMBARGOED BY SUBITEMS (D) AND (E) ABOVE FOR DEFINED CIVIL USE (INCLUDING, BUT NOT LIMITED TO, TRAFFIC COUNTING AND INTRUDER ALARMS) UNDER THE FOLLOWING CONDITIONS:

(A) SCHOTTKY BARRIER DIODES WITH AN OPERATING FREQUENCY OF 12.5 GHZ OR LESS; AND

(B) MICROWAVE BULK EFFECT DIODES WITH AN OPERATING FREQUENCY OF 12.5 GHZ OR LESS AND AN OUTPUT POWER OF 500 MW OR LESS.

5. USDEL AND WASHINGTON TEAM HAVE THE FOLLOWING COMMENTS ON THE PROPOSED NEW ITEM 1544:
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(A) NO CHANGE FROM PRESENT 1544. RECOMMEND CONCURRENCE.

(B) RECOMMEND ACCEPTANCE OF A 3 GHZ VALUE. ALL OTHER NATIONS EXCEPT JAPAN HAVE PROPOSED 10.5 GHZ. JAPAN HAS AGREED TO 3 GHZ.

(C) RECOMMEND ACCEPTANCE OF 1 GHZ VALUE SINCE WE HAVE NOW LIMITED THIS TO TUNING DIODES WHICH ARE PRIMARILY USED IN THE COMMERCIAL TV BAND.

(D) THIS IS A NEW PARAGRAPH WHICH SHOULD ALLEVIATE THE CONCERN FOR TUNNEL DIODES ADDRESSED IN STATE 059557.

(E) A NEW PARAGRAPH SUGGESTED TO STRENGTHEN THE EMBARGO IN A STRATEGICALLY IMPORTANT AREA.

(F) AND (G) AGREED TO BASED UPON RECOMMENDATIONS IN STATE 059557

(H) A NEW PARAGRAPH INTENDED TO COVER VARACTORS AND MULTIPLIERS ON AN INPUT POWER BASIS, AS FUNCTION OF FREQUENCY IS A USEFUL IMPROVEMENT OVER PRESENT DEFINITION. LEVELS CHOSEN SHOULD BE STUDIED BASED UPON EXISTING DEVICE SPECIFICATIONS.

(I) RECOMMEND ACCEPTANCE WITH AN AMENDMENT TO INCLUDE BULK EFFECT AMPLIFIERS.

AE NOTES (A) AND (B)

RECOMMEND FURTHER STUDY OF THESE EXCEPTIONS. OUR INITIAL REACTION IS UNSYMPATHETIC. PERHAPS LOWER LEVELS CAN BE CONSIDERED.

6. ACTION REQUESTED: PRIORITY TECHNICAL REVIEW AND TRANSMISSION OF AT LEAST PRELIMINARY INSTRUCTIONS IN TIME FOR RENEWED COCOM DISCUSSION ON FRIDAY MORNING, MARCH 21.
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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: STRATEGIC TRADE CONTROLS, EXCEPTIONS LIST, SEMICONDUCTOR DEVICES
Control Number: n/a
Copy: SINGLE
Draft Date: 19 MAR 1975
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Authority: GarlanWA
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 28 MAY 2004
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1975OECDP06956
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: X1
Errors: N/A
Film Number: D750095-0521
From: OECD PARIS
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1975/newtext/t19750336/aaaabgnj.tel
Line Count: 210
Locator: TEXT ON-LINE, ON MICROFILM
Office: ACTION EB
Original Classification: CONFIDENTIAL
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 4
Previous Channel Indicators: n/a
Previous Classification: CONFIDENTIAL
Previous Handling Restrictions: n/a
Reference: 75 COCOM DOC REV (71544/1
Review Action: RELEASED, APPROVED
Review Authority: GarlanWA
Review Comment: n/a
Review Content Flags:
Review Date: 14 MAY 2003
Review Event:
Review Exemptions: n/a
Review History: RELEASED <14 MAY 2003 by ElyME>; APPROVED <09 JUN 2003 by GarlanWA>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
05 JUL 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: COCOM LIST REVIEW - IL 1544 - DIODES
TAGS: ESTC, UK, US, COCOM
To: STATE
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 05 JUL 2006